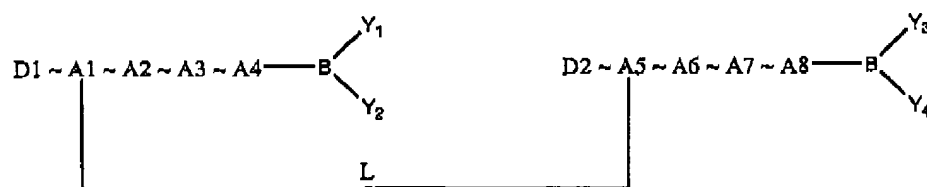


Amendment to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Previously presented) A compound, having the structure



wherein D1 and D2, independently, are selected from the group consisting of NH and NH_2 ,

wherein N represents any isotope of nitrogen,

wherein H represents any isotope of hydrogen;

"~", independently, is selected from the group consisting of a single bond and a double bond;

B represents, independently, any isotope of boron;

A1 and A5 are, independently, selected from a group consisting of a C, a CX moiety and an N,

wherein C represents any isotope of carbon,

wherein X represents any atom that forms a single bond with C;

each A2, A3, A4, A6, A7, and A8 are, independently, selected from a group consisting of a CX moiety, a CXZ moiety, a CZ moiety, an NX moiety, and an O,

wherein X and Z, are, independently, selected from the groups consisting of any atom that forms a single bond and any atom that forms a double bond with C or N and wherein O represents any isotope of oxygen;

wherein each Y_1 , Y_2 , Y_3 , and Y_4 are, independently, selected from the group consisting

of hydroxyl moiety and any reactive moiety that converts to a hydroxyl group moiety under physiologic conditions; and

L represents a linker moiety containing a chain of atoms selected from the group consisting of a combination of C, O, N, S, and P atoms, connected by single bonds or by double bonds in a manner that does not violate the laws of chemistry and wherein S represents any isotope of sulfur and P represents any isotope of phosphorous.

wherein L has a molecular weight ranging between 100 daltons and 2000 daltons,

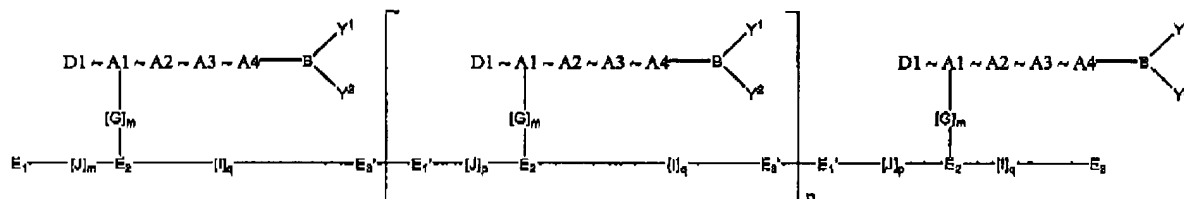
or

L has a span ranging from 20 Å to 300 Å.

Claims 2.-72. (Canceled)

73. (Previously presented)

A compound, having the structure



wherein D is, independently, selected from the group consisting of NH and NH₂,

wherein N represents any isotope of nitrogen,

wherein H represents any isotope of hydrogen;

"~", independently, is selected from the group consisting of a single bond and a double bond:

B represents, independently, any isotope of boron;

A1 is, independently, selected from the group consisting of a C, a CX moiety, and an N,

wherein C represents any isotope of carbon,

wherein X represents any atom that forms a single bond with C;

each A2, A3, and A4 are, independently, selected from the group consisting of a CX moiety, a CXZ moiety, a CZ moiety, an NX moiety, and an O,

wherein X and Z, independently, are selected from the group consisting of any

atom that forms a single bond and any atom that forms a double bond with C or N and wherein O represents any isotope of oxygen;

wherein Y1 and Y2 are, independently, selected from the group consisting of a hydroxyl moiety and any reactive moiety that converts to a hydroxyl group moiety under physiological conditions;

n represents an integer between 0 and 199, inclusive;

wherein E1 and E3 are independently selected from the group consisting of a carboxylate, amino, imidazole, sulfhydryl, aldehyde, ester, amide, acid chloride, carbonate, and carbamate group such that the E1 and E3 react and form an $-E1'-E3'-$ adduct with a covalent bond between E1' and E3';

wherein $[J]_p$, E2, $[I]_q$, and $[G]_m$ together comprise a linker moiety, and wherein $[G]_m$, $[J]_p$, and $[I]_q$ represent, independently, a linker group containing a chain of atoms selected from the group consisting of a combination of C, O, N, S, and P atoms, connected by single bonds, double bonds, or triple bonds in a manner that does not violate the laws of chemistry and wherein S represents any isotope of sulfur and P represents any isotope of phosphorus; and wherein m, p, and q represent, independently, an integer from 1 to 50, inclusive; and wherein the linker group has a molecular weight ranging 100 daltons and 2000 daltons or has a span ranging from 20 Å to 300 Å;

E2 is selected from the group consisting of CX, CH, N, PYZ, PU, and B such that E2 forms a covalent bond with $[J]_p$, $[G]_m$, and $[I]_q$ and

wherein C is any isotope of carbon;

X is, independently, selected from the group consisting of any atom that forms a single bond with carbon;

Y is, independently, selected from the group consisting of any atom that forms a single bond with phosphorous;

Z is, independently, selected from the group consisting of any atom that forms a single bond with phosphorous;

H is any isotope of hydrogen;

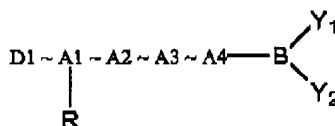
N is any isotope of nitrogen;

P is any isotope of phosphorus;

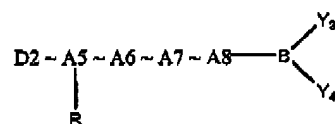
B is an isotope of boron;

U is, independently, selected from the group consisting of any atom that forms a double bond with phosphorous.

74. (Previously presented) The compound of claim 1 wherein the following structures



and



represent, independently, a binding moiety, wherein R represents the remainder of the molecule.

75. (Previously presented) The compound of claim 74 wherein there are four atoms positioned between the group consisting of D1 and D2 and B of the binding moiety.

76. (Previously presented) The compound of claim 74 wherein the binding moiety includes a carbon atom in an L-configuration.

77. (Previously presented) The compound of claim 1 wherein Y^1 , Y^2 , Y^3 , and Y^4 are hydroxyl groups.

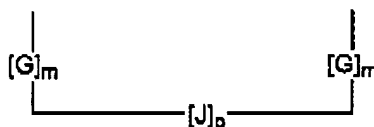
78. (Previously presented) The compound of claim 1 wherein the A4 is CXZ, and the A4 bonded to B is in the L-configuration; and wherein A8 is CXZ, and the A8 bonded to B is in the L-configuration.

79. (Previously presented) The compound of claim 74 wherein the binding moiety is an L-amino acid derivative, wherein the carboxylic acid group of the L-amino acid has been replaced by a boron-containing group.

80. (Previously presented) The compound of claim 74 wherein the binding moiety is selected from the group consisting of L-Lys-L-boroPro, derivatives of L-Lys-L-boroPro, L-Pro-L-boroPro, derivatives of L-Pro-L-boroPro, L-Ala-L-boroPro, derivatives of L-Ala-L-boroPro, L-Val-L-boroPro, and derivatives of L-Val-L-boroPro.

81. (Currently amended) The compound of claim 1 wherein the linker ~~molecule~~ moiety contains a functional group selected from the group consisting of a carboxylate group, an amino group, a sulfhydryl group, an imidazole group, an alkene group, an acyl halogen group, and CH_2X , wherein X represents a halogen.

82. (Currently amended) The compound of claim 1 wherein the linker ~~molecule~~ moiety is further defined as having the following structure:



wherein [G] is selected from the group consisting of a carbon, nitrogen, oxygen, hydrogen, and a sulfur atom; [J] is selected from the group consisting of a CH_2 molecule, a chain of carbon atoms, a chain of nitrogen atoms, a chain of oxygen atoms, and combinations thereof; and m, p, and q represent an integer from 1 to 50, inclusive.

83. (Previously presented) The compound of claim 82 wherein [G] is an R group selected from the group consisting of L-amino acid residues selected from the group consisting of lysine, cysteine, glutamic acid, aspartic acid, histidine, arginine, glutamine, and asparagine and D-amino acid residues selected from the group consisting of lysine, cysteine, glutamic acid, aspartic acid, histidine, arginine, glutamine, and asparagine.

84. (Currently amended) The compound of claim 1 wherein the linker ~~molecule~~ moiety is selected from the group consisting of hexanedioic acid (adipic acid), ethylene glycobissuccinate (EGS), 1,4-diaminobutane, 1,4-dithiobutane, dithiothreitol, lysine, cysteine, glutamic acid, aspartic acid, histidine, arginine, glutamine, and asparagine.
85. (Currently amended) The compound of claim 1 wherein the linker ~~molecule~~ moiety contains at least two amino groups when the binding moieties contain glutamic acid residues.
86. (Currently amended) The compound of claim 1 wherein the linker ~~molecule~~ moiety contains at least two amino groups when the binding moieties contain aspartic acid residues.
87. (Currently amended) The compound of claim 1 wherein the linker ~~molecule~~ moiety contains at least two sulfhydryl groups when the binding moieties contain cysteine residues.
88. (Currently amended) The compound of claim 1 wherein the linker ~~molecule~~ moiety span ranges from about 30 Å to about 100 Å.
89. (Previously presented) The compound of claim 73,
wherein $[G]_m$ is the side chain of a D- or L-isomer of lysine, cysteine, glutamic acid, aspartic acid, histidine, arginine, glutamine, and asparagine;
 E_2 is a D- or L-isomer of lysine, cysteine, glutamic acid, aspartic acid, histidine, arginine, glutamine, and asparagine; and
 E_1 and E_3 are selected from the group consisting of an amino moiety and a carboxylic acid moiety.

90. (Currently amended) The compound of claim 73,
wherein $[G]_m$ is the side chain of a D- or L-isomer of lysine, cysteine, glutamic acid,
aspartic acid, histidine, arginine, glutamine, and asparagine;
 E_2 is selected from the group consisting of 2-carboxybutyl, 2-carboxypropyl, 2-
aminobutyl, 2-aminopropyl, and a hydrocarbon chain with an amino or carboxy side chain;
 $[J]_p$ and $[I]_q$ represent, independently, hydrocarbon chains; and
 E_1 and E_3 are selected from the group consisting of an amino moiety and a carboxylic
acid moiety.
91. (Previously presented) The compound of claim 73 wherein Y^1 and Y^2 are hydroxyl
groups.
92. (Previously presented) The compound of claim 73 wherein the A4 is CXZ, and the
A4 bonded to B is in the L-configuration.